

REMARKS

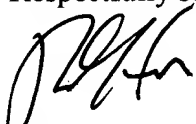
The Examiner has allowed all of the pending claims. This Communication is provided to comply with the requirements of 37 C.F.R. §§ 1.821-1.825 as set forth in the Action dated July 22, 2005. No new matter has been added.

CONCLUSION

Applicants believe that the foregoing remarks fully respond to all outstanding matters for this application.

Should the Examiner have any remaining questions a telephone call to the undersigned attorney at 512-536-3081 is respectfully requested.

Respectfully submitted,


for: Gina N. Shishima
Reg. No. 45,104
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Austin, Texas 78701
(512) 474-5201
(512) 536-4598 (facsimile)

Date: September 22, 2005

APPENDIX A



SEQUENCE LISTING

<110> ALDAZ, MARCELO C.
BEDNAREK, ANDRZEJ

<120> WWOX: A PUTATIVE TUMOR SUPPRESSOR GENE MUTATED IN
MULTIPLE CANCERS

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 Leu Pro Asn Val Pro Pro Thr Gln Ile Arg Lys Ser Lys Gly Asn Lys
 225 230 235 240
 Ser Ser His Asn Arg Val Lys Asn Leu Lys Tyr Gln Trp Glu Ala Gly
 245 250 255
 Asn Ser Trp Gly Lys Val Ser Leu Phe Trp Gly Trp Ala Arg His Arg
 260 265 270
 Ser Leu Cys Phe Leu Val Val Ala Cys Leu Lys Val Lys Thr Cys Leu
 275 280 285
 Val Cys Arg Phe Arg Ile Ser Leu Glu Lys His Gln Gln Phe Ser Phe
 290 295 300
 Phe Tyr Cys Tyr Arg Ile Ala
 305 310

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 agcgggagtg agttcctgag cgagtggacc cggcagcggg cgataggggg gccaggtgcc 120
 tccacagtca gcc atg gca gcg ctg cgc tac gcg ggg ctg gac gac acg 169
 Met Ala Ala Leu Arg Tyr Ala Gly Leu Asp Asp Thr
 1 5 10
 gac agt gag gac gag ctg cct ccg ggc tgg gag gag aga acc acc aag 217
 Asp Ser Glu Asp Glu Leu Pro Pro Gly Trp Glu Glu Arg Thr Thr Lys
 15 20 25

| | |
|---|------|
| gac ggc tgg gtt tac tac gcc aat cac acc gag gag aag act cag tgg | 265 |
| Asp Gly Trp Val Tyr Tyr Ala Asn His Thr Glu Glu Lys Thr Gln Trp | |
| 30 35 40 | |
| gaa cat cca aaa act gga aaa aga aaa cga gtg gca gga gat ttg cca | 313 |
| Glu His Pro Lys Thr Gly Lys Arg Lys Arg Val Ala Gly Asp Leu Pro | |
| 45 50 55 60 | |
| tac gga tgg gaa caa gaa act gat gag aac gga caa gtg ttt ttt gtt | 361 |
| Tyr Gly Trp Glu Gln Glu Thr Asp Glu Asn Gly Gln Val Phe Phe Val | |
| 65 70 75 | |
| gac cat ata aat aaa aga acc acc tac ttg gac cca aga ctg gcg ttt | 409 |
| Asp His Ile Asn Lys Arg Thr Thr Tyr Leu Asp Pro Arg Leu Ala Phe | |
| 80 85 90 | |
| act gtg gat gat aat ccg acc aag cca acc acc cgg caa aga tac gac | 457 |
| Thr Val Asp Asp Asn Pro Thr Lys Pro Thr Thr Arg Gln Arg Tyr Asp | |
| 95 100 105 | |
| ggc agc acc act gcc atg gaa att ctc cag ggc cgg gat ttc act ggc | 505 |
| Gly Ser Thr Thr Ala Met Glu Ile Leu Gln Gly Arg Asp Phe Thr Gly | |
| 110 115 120 | |
| aaa gtg gtt gtg gtc act gga gct aat tca gga ata ggg ttc gaa acc | 553 |
| Lys Val Val Val Val Thr Gly Ala Asn Ser Gly Ile Gly Phe Glu Thr | |
| 125 130 135 140 | |
| gcc aag tct ttt gcc ctc cat ggt gca cat gtg atc ttg gcc tgc agg | 601 |
| Ala Lys Ser Phe Ala Leu His Gly Ala His Val Ile Leu Ala Cys Arg | |
| 145 150 155 | |
| aac atg gca agg gcg agt gaa gca gtg tca cgc att tta gaa gaa tgg | 649 |
| Asn Met Ala Arg Ala Ser Glu Ala Val Ser Arg Ile Leu Glu Glu Trp | |
| 160 165 170 | |
| caa cag gga gct gcc acc acc gtg tac tgt gct gct gtc cca gaa ctg | 697 |
| Gln Gln Gly Ala Ala Thr Thr Val Tyr Cys Ala Ala Val Pro Glu Leu | |
| 175 180 185 | |
| gag ggt ctg gga ggg atg tac ttc aac aac tgc tgc cgc tgc atg ccc | 745 |
| Glu Gly Leu Gly Gly Met Tyr Phe Asn Asn Cys Cys Arg Cys Met Pro | |
| 190 195 200 | |
| tca cca gaa gct cag agc gaa gag acg gcc cgg acc ctg tgg gcg ctc | 793 |
| Ser Pro Glu Ala Gln Ser Glu Glu Thr Ala Arg Thr Leu Trp Ala Leu | |
| 205 210 215 220 | |
| agc gag agg ctg atc caa gaa cgg ctt ggc agc cag tcc ggc taa | 838 |
| Ser Glu Arg Leu Ile Gln Glu Arg Leu Gly Ser Gln Ser Gly | |
| 225 230 235 | |
| gtggagctca gagcggatgg gcacacacac ccgccctgtg tgtgtcccct cagcaagtg | 898 |
| ccagggctgg gcccttcca aatgtccctc caacacagat ccgcaagagt aaaggaaata | 958 |
| agagcagtca caacagagtg aaaaatctta agtaccaatg ggaagcaggg aattcctggg | 1018 |

gtaaagtatc acttttctgg ggctgggcta ggcataaggtc tctttgcttt ctggtggtgg 1078
 cctgtttgaa agtaaaaacc tgcttggtgt gtaggttccg tatctccctg gagaagcacc 1138
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 accaccacgg ccaccactgc agccgggggc tggccttctc ctacttaggg aagaaaaagc 1258
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 acagtctcag ttctcttgc ttcacattgt acttaaacct cctgctgtgc ctgcgcatcct 1678
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<210> 33
 <211> 234
 <212> PRT
 <213> Homo sapiens

<400> 33
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 Glu Leu Pro Pro Gly Trp Glu Glu Arg Thr Thr Lys Asp Gly Trp Val
 20 25 30
 Tyr Tyr Ala Asn His Thr Glu Glu Lys Thr Gln Trp Glu His Pro Lys
 35 40 45
 Thr Gly Lys Arg Lys Arg Val Ala Gly Asp Leu Pro Tyr Gly Trp Glu
 50 55 60
 Gln Glu Thr Asp Glu Asn Gly Gln Val Phe Phe Val Asp His Ile Asn
 65 70 75 80
 Lys Arg Thr Thr Tyr Leu Asp Pro Arg Leu Ala Phe Thr Val Asp Asp
 85 90 95
 Asn Pro Thr Lys Pro Thr Thr Arg Gln Arg Tyr Asp Gly Ser Thr Thr
 100 105 110
 Ala Met Glu Ile Leu Gln Gly Arg Asp Phe Thr Gly Lys Val Val Val
 115 120 125
 Val Thr Gly Ala Asn Ser Gly Ile Gly Phe Glu Thr Ala Lys Ser Phe
 130 135 140
 Ala Leu His Gly Ala His Val Ile Leu Ala Cys Arg Asn Met Ala Arg
 145 150 155 160
 Ala Ser Glu Ala Val Ser Arg Ile Leu Glu Glu Trp Gln Gln Gly Ala
 165 170 175
 Ala Thr Thr Val Tyr Cys Ala Ala Val Pro Glu Leu Glu Gly Leu Gly
 180 185 190
 Gly Met Tyr Phe Asn Asn Cys Cys Arg Cys Met Pro Ser Pro Glu Ala

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 195 | | 200 | | 205 | | | | | | | | | | |
| Gln | Ser | Glu | Glu | Thr | Ala | Arg | Thr | Leu | Trp | Ala | Leu | Ser | Glu | Arg | Leu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ile | Gln | Glu | Arg | Leu | Gly | Ser | Gln | Ser | Gly | | | | | | |
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<400> 34
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<210> 35
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<400> 35
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<210> 36
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 <213> Homo sapiens

<400> 36
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<400> 37
 ttccccctac ttccttctta tatctggc 28

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<400> 38
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<210> 39
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| <210> 41 <211> 26 <212> DNA <213> Homo sapiens | |
| <400> 41 agttctttca ggtttaagga ataagc | 26 |
| <210> 42 <211> 28 <212> DNA <213> Homo sapiens | |
| <400> 42 tagatctaag tggatctcat tatagcag | 28 |
| <210> 43 <211> 25 <212> DNA <213> Homo sapiens | |
| <400> 43 acttggggta atttaagtgg tgctc | 25 |
| <210> 44 <211> 27 <212> DNA <213> Homo sapiens | |
| <400> 44 aactttacac actccactga aatctcc | 27 |
| <210> 45 <211> 21 <212> DNA <213> Homo sapiens | |
| <400> 45 attaaacagg ggaattccga c | 21 |

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| <213> Homo sapiens | |
| <400> 46 | |
| tctccaatt gtgttcatt g | 21 |
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| <210> 47 | |
| <211> 19 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 47 | |
| acatccatgg atcccgaag | 19 |
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| <210> 48 | |
| <211> 23 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 48 | |
| tggtatgaga aaggggataa gtg | 23 |
| | |
| <210> 49 | |
| <211> 25 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 49 | |
| tgacaccagc attccttaga ttccc | 25 |
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| <210> 50 | |
| <211> 20 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 50 | |
| accagactca tgcccgaag | 20 |
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| <210> 51 | |
| <211> 23 | |
| <212> DNA | |
| <213> Homo sapiens | |
| <400> 51 | |
| aaatgacgcc atctcatcac tcc | 23 |
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| <210> 52 | |

<211> 24
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 <400> 52
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 <400> 53
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| <400> 59 tatttttaag atttaca | 17 |
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| <400> 60 ggatttccag caacagg | 17 |
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| <400> 61 acgccaagta agggggc | 17 |
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| <210> 62 <211> 17 <212> DNA <213> Homo sapiens | |
| <400> 62 gcaggagggtt tgtatgt | 17 |
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| <210> 63 <211> 17 <212> DNA <213> Homo sapiens | |
| <400> 63 ttgttgagta agtgtct | 17 |
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| <210> 64 <211> 17 <212> DNA <213> Homo sapiens | |
| <400> 64 ggaataggta ggctctt | 17 |

<210> 65
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 <400> 65
 agaatgggta agcgctt 17

 <210> 66
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 <400> 66
 gaatgtgtga gtgttcc 17

 <210> 67
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 <212> DNA
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 <400> 67
 cccatcggtg ggtttga 17

 <210> 68
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 <400> 68
 gtccatggta agagaac 17

 <210> 69
 <211> 30
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

 <400> 69
 Leu Pro Pro Gly Trp Glu Glu Arg Thr Thr Lys Asp Gly Trp Val Tyr
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 Tyr Ala Asn His Thr Glu Glu Lys Thr Gln Trp Glu His Pro
 20 25 30

 <210> 70
 <211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 70

| | | | | | | | | | | | | | | | |
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| Leu | Pro | Tyr | Gly | Trp | Glu | Gln | Glu | Thr | Asp | Glu | Asn | Gly | Gln | Val | Phe |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Val | Asp | His | Ile | Asn | Lys | Arg | Thr | Thr | Tyr | Leu | Asp | Pro |
| | | | 20 | | | | | 25 | | | | | 30 |